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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,103	12/30/2003	Rafael Reif	MIT-136BUS	3165
22494 75	7590 10/02/2006		EXAMINER	
DALY, CROWLEY, MOFFORD & DURKEE, LLP			ZARNEKE, DAVID A	
SUITE 301A 354A TURNPIKE STREET CANTON, MA 02021-2714			ART UNIT	PAPER NUMBER
			2891	

DATE MAILED: 10/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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		Application No.	Applicant(s)	7
		10/749,103	REIF ET AL.	
	Office Action Summary	Examiner	Art Unit	
		David A. Zarneke	2891	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the o	correspondence address	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solid strength of the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. The period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).	
Status				
2a) <u></u>	Responsive to communication(s) filed on <u>17 Ju</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims	·		
5) 6) 7)	Claim(s) <u>29-35,39-49,53-56,58,60-63,66-80,84</u> 4a) Of the above claim(s) <u>46-49,66-80,84,86 art</u> Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>29-35, 40-45, 53-56, 58, 60-63</u> are su	nd 87 is/are withdrawn from cons	ideration.	
Applicati	on Papers			
10) 🗌	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	ion No ed in this National Stage	
2) 🔲 Notic 3) 🔲 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Election

Applicant's election without traverse of Species 2, subspecies A) i, B) i, and C) iii in the reply filed on 7/17/06 is acknowledged. It is alleged that this corresponds to claims 29-35, 40-49, 53-56, 58, 60-63, 66-80, 84, 86, and 87.

Please note that claims 66-80, 84, 86, and 87 were non-elected in the response of 11/25/05. Further, the current election of B) i means that claims 46-49 are non-elected.

Consequently, the examined claims are 29-35, 40-45, 53-56, 58, and 60-63.

Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

RESTRICTION A

- I. Claims 29-31, 35, 40-45, 53-56, 58, and 60, drawn to a method, classified in class 438, subclass 455.
 - II. Claims 32-34, and 61-63, drawn to a method, classified in class 438, subclass 455.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2)

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that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination requires two (2) semiconductor structures. The subcombination has separate utility such as by itself.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

RESTRICTION B

- I. Claims 29-31, 35, 40-45, 53-56, 58, and 60, drawn to a method, classified in class 438, subclass 455.
 - II. Claims 32-34, and 61-63, drawn to a method, classified in class 438, subclass 455.

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2)

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that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the subcombination requires the semiconductor structure to be formed on a substrate. The subcombination has separate utility such as by itself.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Because these inventions in each of restrictions A and B are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art due to their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record snowing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Zarneke whose telephone number is (571)-272-1937. The examiner can normally be reached on M-Th 7:30 AM-6 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Baumeister can be reached on (571)-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Øavid A. Zarneke

Primary Examiner September 22, 2006